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(71) Applicant (*for all designated States except US*): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): JOHNSON, Mark, T. [GB/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: VAN DEN HOOVEN, Jan; Internationaal Octroobureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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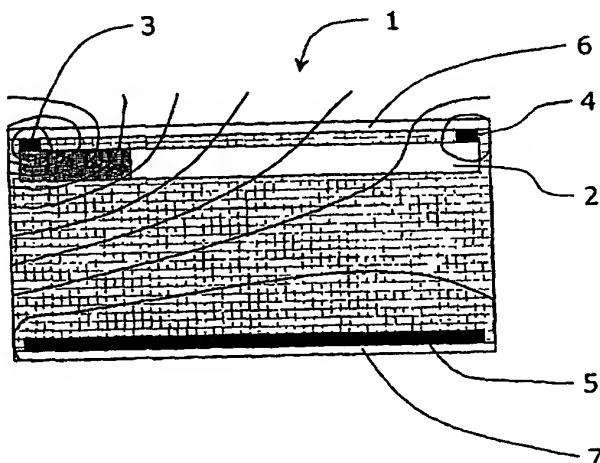
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(54) Title: AN ELECTROCHROMIC DISPLAY WITH ANALOG GRAY SCALE



(57) Abstract: A display device comprising a plurality of independently addressable pixels (1). Each pixel comprises: a first substrate (6); a second substrate (7); an electrochromic material (2) disposed between said first substrate (6) and said second substrate (7). At least two independent electrodes (3, 4) are associated with said first substrate (6). An independent counter-electrode (5) is associated with said second substrate (7). Each respective electrode is connected to an independently controllable voltage source. The display device has means for controlling the voltage applied to each respective electrode (3, 4, 5) for producing non-uniform electric fields in each pixel (1), for causing partial switching of the electrochromic material (2) from a first state to a second state to generate an area-ratio-defined pixel gray level.

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